INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15587

A. CLASSIFICATION OF SUBJECT MATTER. IPC(7) : C07H 21/04; C12Q 1/68 US CL : 435/6; 536/23.1					
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/6; 536/23.1					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
	JMENTS CONSIDERED TO BE RELIEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
X	EP 0 392 546 A2 (DRMANAC et al.) 12 April 1990	(12.04.1990), see entire document.	1-6, 13-15		
x	GHOSH et al. Covalent attachment of oligonucleotid Research. 1987, Vol. 15, No 13, pages 5353-5372, se		1-6, 13-15		
X, P	US 2003/0129640 A1 (SASAKI et al.) 10 July 2003 (10.07.2003), see entire document.				
Х, Р	US 2004/0185484 A1 (COSTA et al) 23 September 2004 (23.09.2004), see entire document, especially para 94-105.				
Y, P	US 6,808,882 B2 (GRIFFITHS et al) 26 October 2004 (26.10.2004), see entire document. 35-54				
Y	WO 00/40712 A1 (GRIFFITHS et al.) 13 July 2000 (13.07.2000), see entire document. 35-54				
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
#X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being			ep when the document is combined		
"O" document referring to an oral disclosure, use, exhibition or other means obvious to a person skilled in the art "P" document published prior to the international filing date but later than the "&" document member of the same patent family					
priority date claimed					
Date of the actual completion of the international search 23 February 2005 (22 02 2005)					
Name and mailing address of the ISA/US Authorized petiger Authorized petiger					
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Mail Stop PCT, Attn: ISA/US Jeanine Eflewold Goldberg Telephone No. (703) 308-0196					
l ===	Facsimile No. (703) 305-3230				
Form PCT/ISA/210 (second sheet) (January 2004)					

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACK	TNG			
This application contains the following inventions or groups of inventions which a				
concept under PCT Rule 13.1. In order for all inventions to be examined, the app	ropriate additional examination fees must be paid.			
Group I, claim(s) 1-34, drawn to a composition comprising a plurality of beads wi	herein the beads comprise polynucleotides.			
Group II, claim(s) 35-54, drawn to a method for analyzing nucleotide sequence variations by forming microemulsions.				
Group III, claim(s) 55-58, drawn to probes and pairs of probes.				
Group IV, claim(s) 59-63, drawn to a method for isolating nucleotide sequence ve				
The inventions listed as Groups I-IV do not relate to a single general inventive co	oncept under PCT Rule 13.1 because, under PCT Rule			
13.2, they lack the same or corresponding special technical features for the follow. The prior art teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of beads where the beautiful teaches a composition comprising a plurality of teaches a composition comprising a plurality of the comprising a plurality of teaches a composition comprising a composition comprising a composition comprising a composition comprising a comprising a composition comprising a composition comprising a compr	ving reasons. ads comprise polynucleotides, therefore, this is not a			
contribution over the art.	posymulation, married, and the married to the marri			
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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)				
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: a. type of material a sequence listing				
table(s) related to the sequence listing				
b. format of material in written format				
in computer readable form				
c. time of filing/furnishing contained in the international application as filed				
filed together with the international application in computer readable form				
furnished subsequently to this Authority for the purposes of search				
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
3. Additional comments:				

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I P

Box No. II Observations where certain claims were found unsearchable (Cor				
This international search report has not been established in respect of certain claims under Ar				
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Author.		
2.		Claims Nos.: because they relate to parts of the international application that do not comply an extent that no meaningful international search can be carried out, specifical!		
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the s		
В	x No. I	Observations where unity of invention is lacking (Continuation e		
		ational Searching Authority found multiple inventions in this international applica Continuation Sheet		
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this is searchable claims. As all searchable claims could be searched without effort justifying an additional payment of any additional fee. As only some of the required additional search fees were timely paid by the all covers only those claims for which fees were paid, specifically claims Nos.: 1-		
4		No required additional search fees were timely paid by the applicant. Consequent restricted to the invention first mentioned in the claims; it is covered by claim on Protest The additional search fees were accompanied by the applicant No protest accompanied the payment of additional search fees were accompanied to payment of additional search fees were accompanied to payment of additional search fees were accompanied to payment of additional search fees were timely paid by the applicant.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)